

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 02ATEX2037** Issue Number: **2**

(4) Equipment: **Solenoids, Types 11A53, 11C53, 11E53 and 11F53**

(5) Manufacturer: **Eugen Seitz AG**

(6) Address: **Spitalstrasse 204, CH-8623 Wetzikon, Switzerland**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number 213091700.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2006**  
**EN 61241-0 : 2006**

**EN 60079-7 : 2007**  
**EN 61241-1 : 2004**

**EN 60079-18 : 2004**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



**II 2 G Ex e mb II T6**  
**II 2 D Ex tD A21 IP65 T70 °C**

This certificate is issued on March 5, 2010 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.



C.G. van Es  
Certification Manager

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 02ATEX2037**

Issue No. 2

(15) **Description**

Solenoids, Types 11A53, 11C53, 11E53 and 11F53 consisting of a non-metallic housing with terminal compartment.

Ambient temperature range  $-20\text{ }^{\circ}\text{C}$  to  $+40\text{ }^{\circ}\text{C}$ .

**Electrical data**

Solenoid Type	Nominal voltage	Type of current	Frequency range	Nominal Power
11A53	6 V to 125 V	DC	-	$\leq 2,5\text{ W}$
11C53	6 V to 250 V	AC	48 Hz to 62 Hz	$\leq 4\text{ VA}$
11E53	6 V to 125 V	DC	-	$\leq 2,5\text{ W}$
11F53	6 V to 250 V	AC + DC	0 Hz and 10 to 10000 Hz	$\leq 2,5\text{ W/VA}$

**Installation instructions**

The manual provided with the equipment shall be followed in detail to assure safe operation.

**Routine tests**

Each solenoid shall be tested in accordance with EN 60079-7, clause 7.1, with a test voltage of 1500 V, during 1 minute, or in accordance with DIN VDE 0580 (VDE 0580):2000 clause 5.3.1 with 2200 V, 45 to 62 Hz, during 1 second.

Each solenoid shall be tested in accordance with EN 60079-18, clause 9:

- 9.1 Visual inspection
- 9.2 Dielectric strength test

(16) **Test Report**

KEMA No. 213091700.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213091700.